IAPA Rec'd PCT/PTO 0 8 DEC 2005

ATTORNEY'S DOCKET NUMBER, FORM PTO-1330 (Modified) REV. 7-2005) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE 05-720-US2 TRANSMITTAL LETTER TO THE UNITED STATES ر U.S., APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) UU1959981 **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE 13 June 2003 (13.06.03) PCT/US2004/018961 14 June 2004 (14.06.04) TITLE OF INVENTION GESN ALLOYS AND ORDERED PHASES WITH DIRECT TUNABLE BANDGAPS GROWN DIRECTLY ON SILICON APPLICANT(S) FOR DO/EO/US John KOUVETAKIS; Matthew BAUER; Jose MENENDEZ; Chang Wu HU; Ignatius S.T. TSONG; John TOLLE Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  $\boxtimes$ This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below.  $\boxtimes$ The US has been elected (Article 31). 4. A copy of the International Application as filed (35 U.S.C. 371 (c)(2))  $\times$ 5. is attached hereto (required only if not communicated by the International Bureau). a.  $\square$ b. 🛛 has been communicated by the International Bureau. c. 🗆 is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. a. 🗆 is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). П Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. 🗆  $\boxtimes$ have not been made; however, the time limit for making such amendments has NOT expired. C. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 9. An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11. A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included: 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. 15. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 16. 17. A substitute specification. A power of attorney and/or change of address letter. 18. 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.  $\boxtimes$ 20. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 21. 22.  $\mathbf{x}$ Express Mail Label No. EV596651865US

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICATION NO (if known, see 37 CFR 1.5)			INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER				
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23. Other iter	23. Other items or information:									
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24. 🖾 Basic na	ational fee					- \$300	\$	\$300.00		
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If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0							<b> </b> \$	\$200.00		
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26. ⊠ Search fee (37 CFR 1.492(b))  If the written opinionof the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0										
Search fee (37 C	FR 1.445(a)(2)) ha	s been paid o	on the international ap	plicat	tion to	the	\$	\$100.00		
as an International Searching Authority										
		•	IB			. \$400 . \$500				
TOTAL OF 24, 25 and 26 =								\$600.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							an in an			
The fee is \$2	250 for each additi	onal 50 sheet	ts of paper or fraction	there	of.					
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Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).							\$			
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Total claims	24	- 20 =	4	x		\$50.00	\$	\$200.00		
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Applicant cla		.atus. See 37	CFR 1.27. Fees abov				\$	\$500.00		
SUBTOTAL =							ļ	\$500.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							\$ \$0.00			
TOTAL NATIONAL FEE =						\$	\$ \$500.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +						\$ \$0.00				
TOTAL FEES ENCLOSED =						\$ \$500.00				
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a.	×	A check in the amount of \$ \$500.00	to cover the above fe	es senciosed I/FI	08 DEC 2005				
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C.	X	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No13-2490 A duplicate copy of this sheet is enclosed.							
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO:									
			_	SIGNATURE					
ı		ER, David S. NNELL BOEHNEN HULBERT & BERG	David S. Harper						
-''-		ith Wacker Drive, Suite 3100	NAME						
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		312) 913-0002	DATE						
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